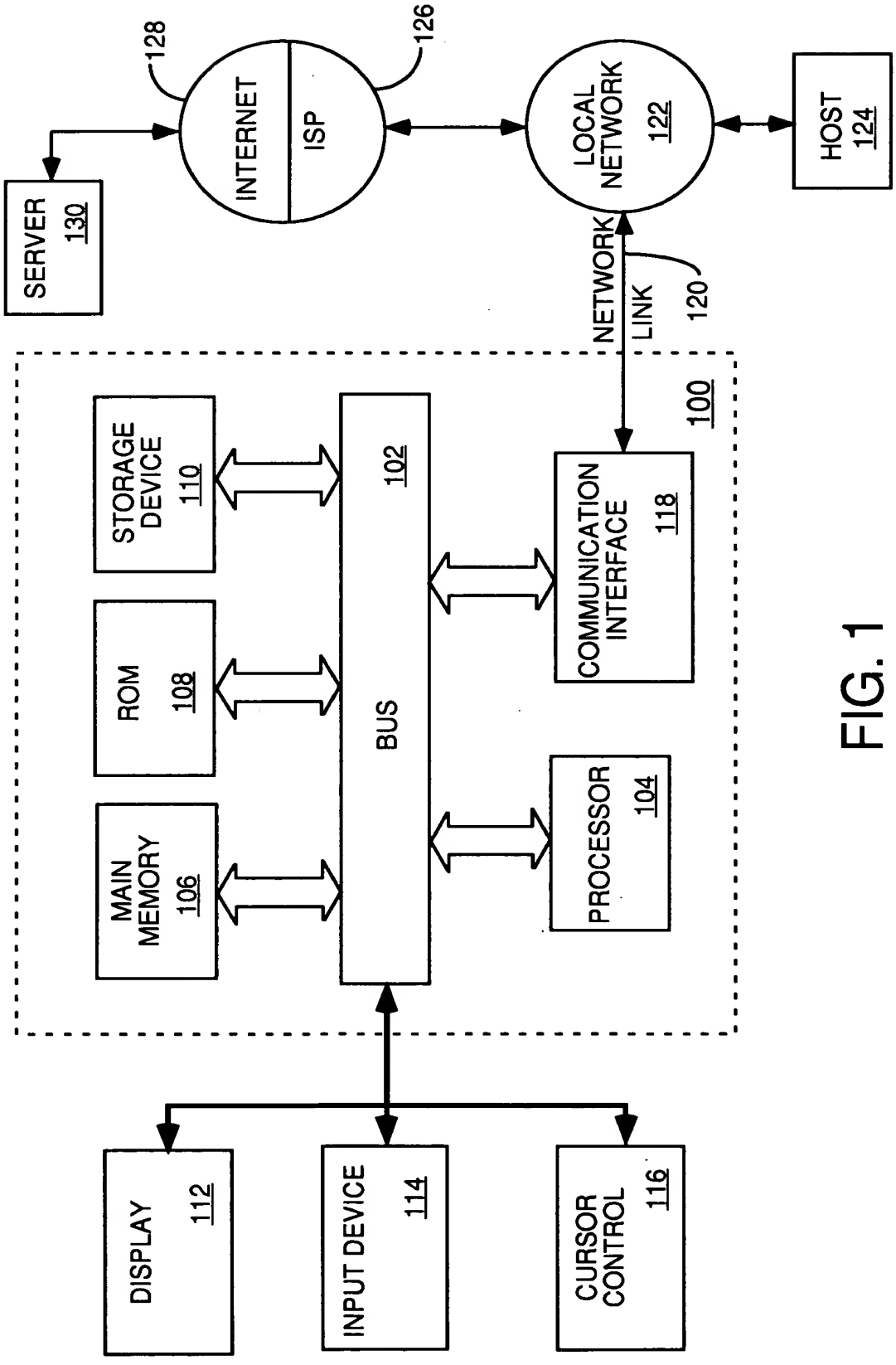


FIG. 1

Attorney Docket

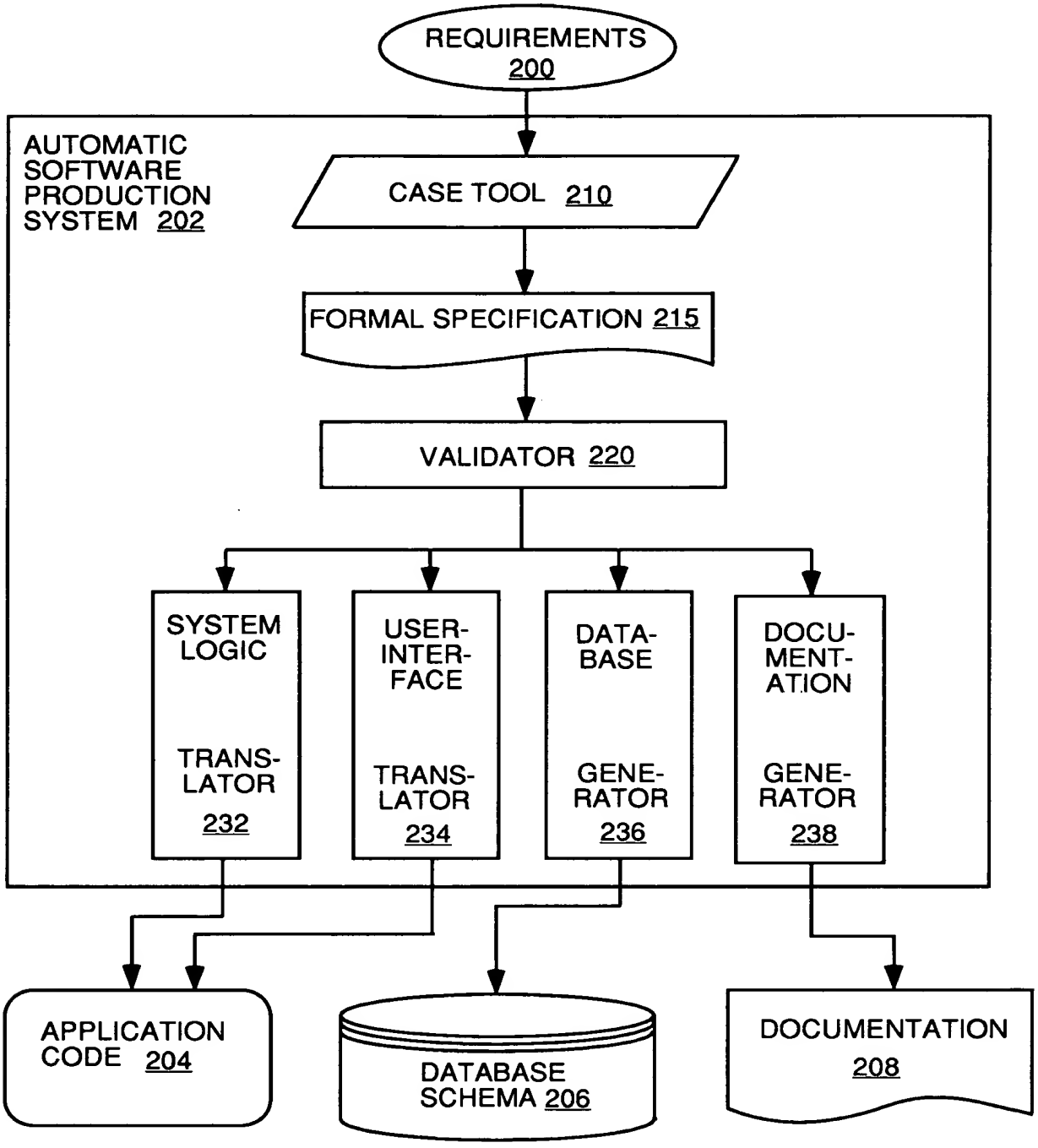
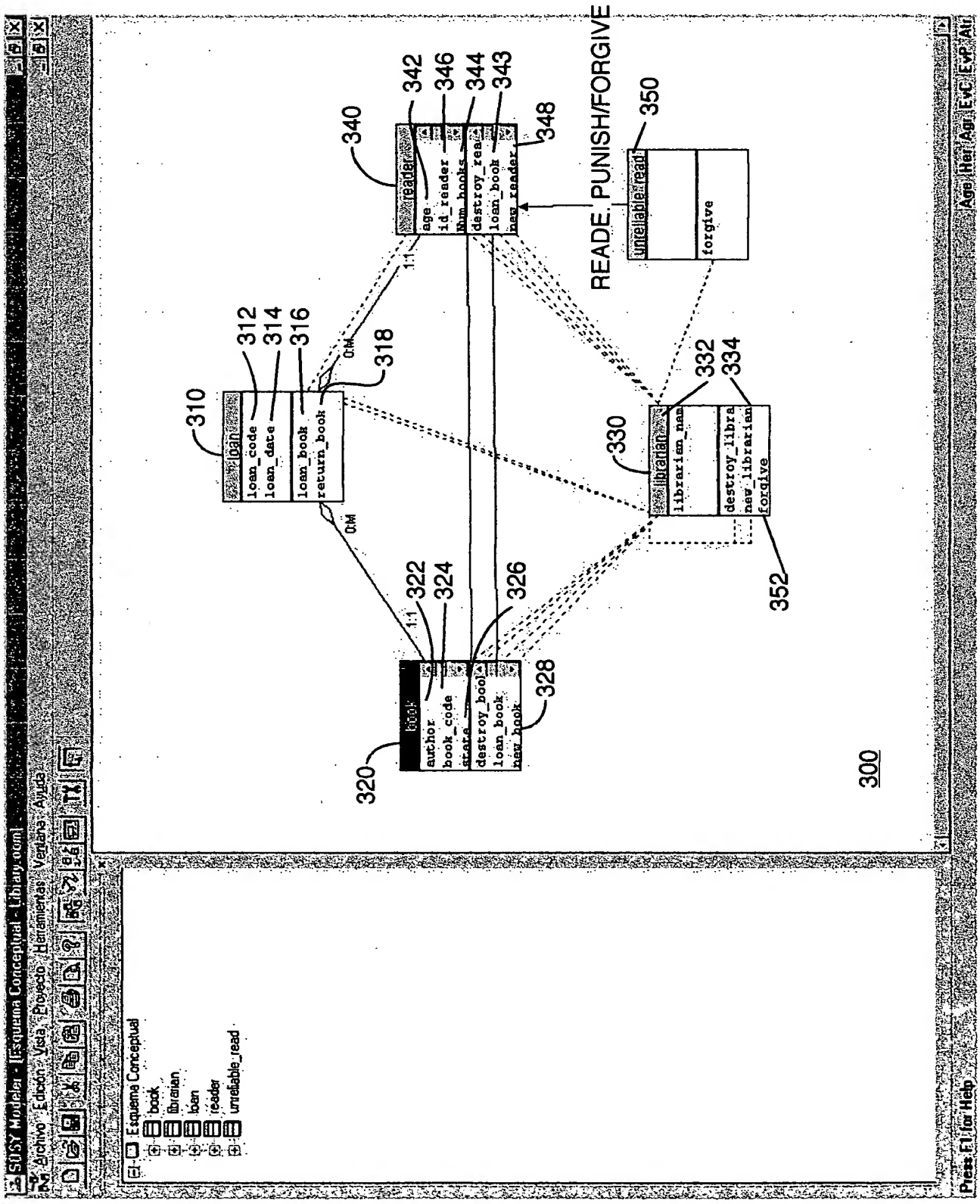

REQUIREMENTS 200
AUTOMATIC SOFTWARE PRODUCTION SYSTEM 202
CASE TOOL 210
FORMAL SPECIFICATION 215
VALIDATOR 220
SYSTEM LOGIC TRANS-LATOR 232
USER-INTER-FACE TRANS-LATOR 234
DATA-BASE GENE-RATOR 236
DOCU-MENT-ATION GENE-RATOR 238
APPLICATION CODE 204
DATABASE SCHEMA 206
DOCUMENTATION 208

FIG. 2


SOCY Modeler - [Esquema Conceptual - Library.ocm]
Archivo Edición Vista Proyecto Herramientas Ventana Ayuda
Esquema Conceptual
book
librarian
loan
reader
unreliable_read
READER PUNISH/FORGIVE
300
310
312
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352
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1:1

FIG. 3

COPY OF PAPERS

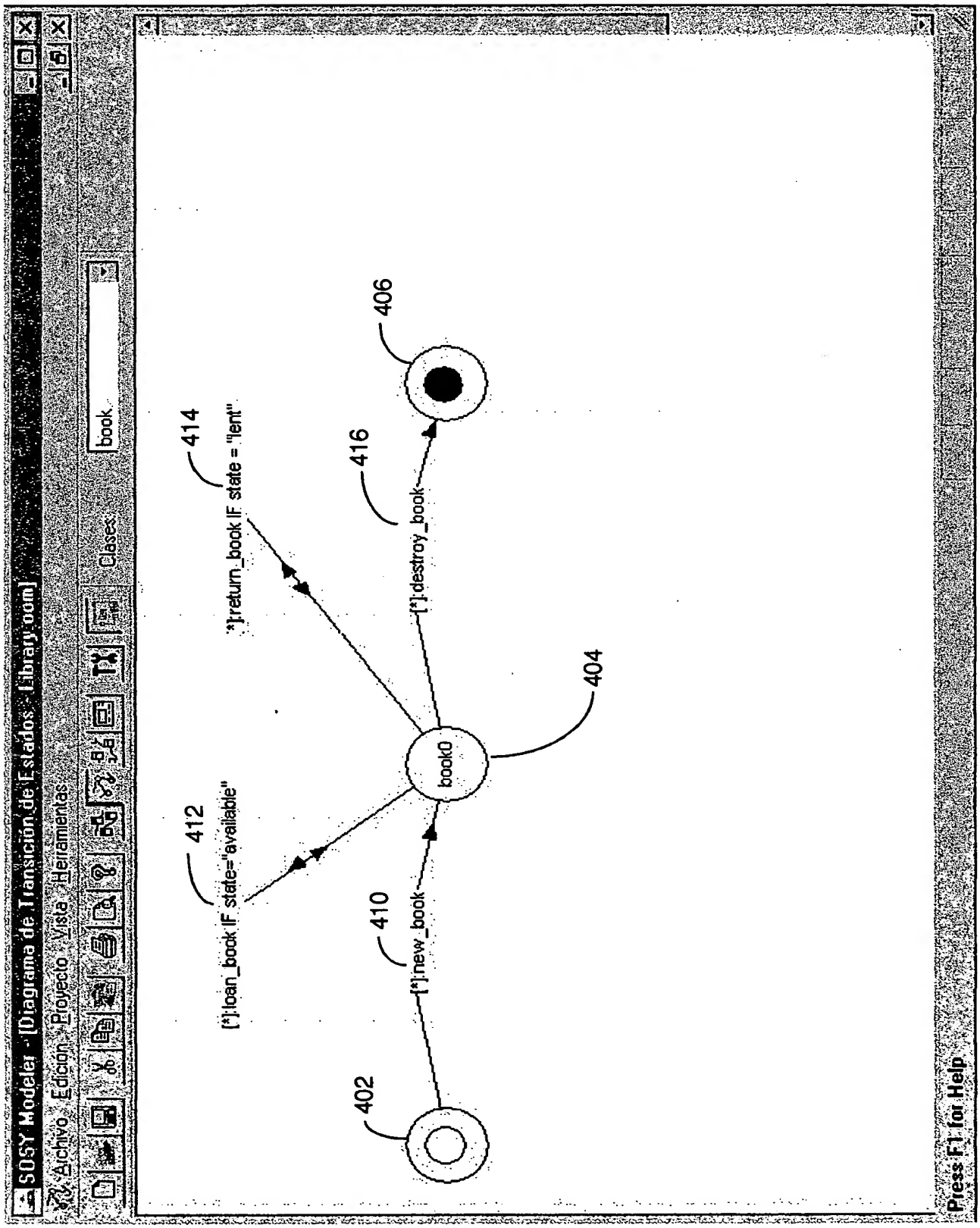


FIG. 4A

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO. 09/872,413
FILING DATE: 06/01/01
DOCKET NO. CHG-001.1P

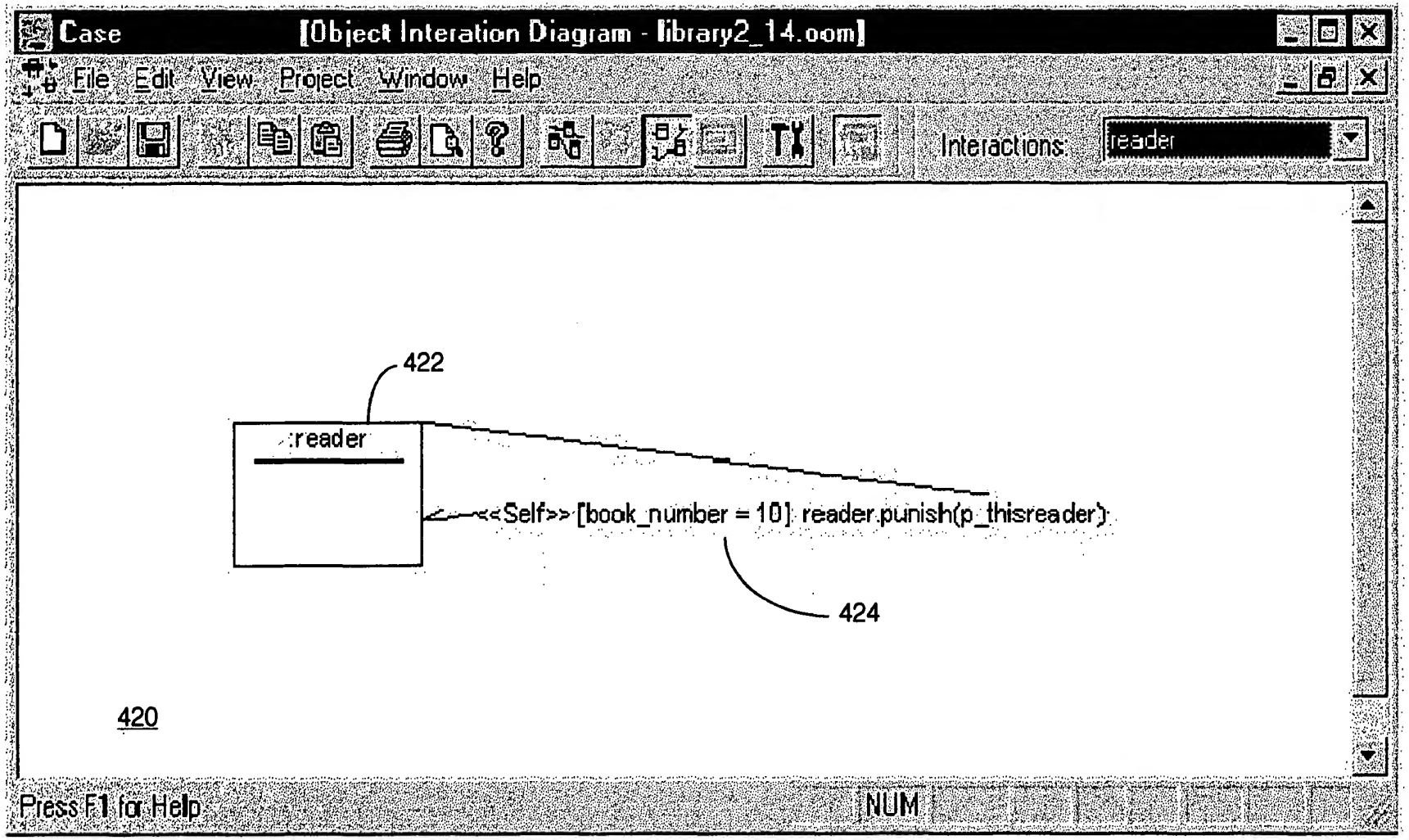


FIG. 4B

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO. 09/872,413
FILING DATE: 06/01/01
DOCKET NO. CHG-001.1P

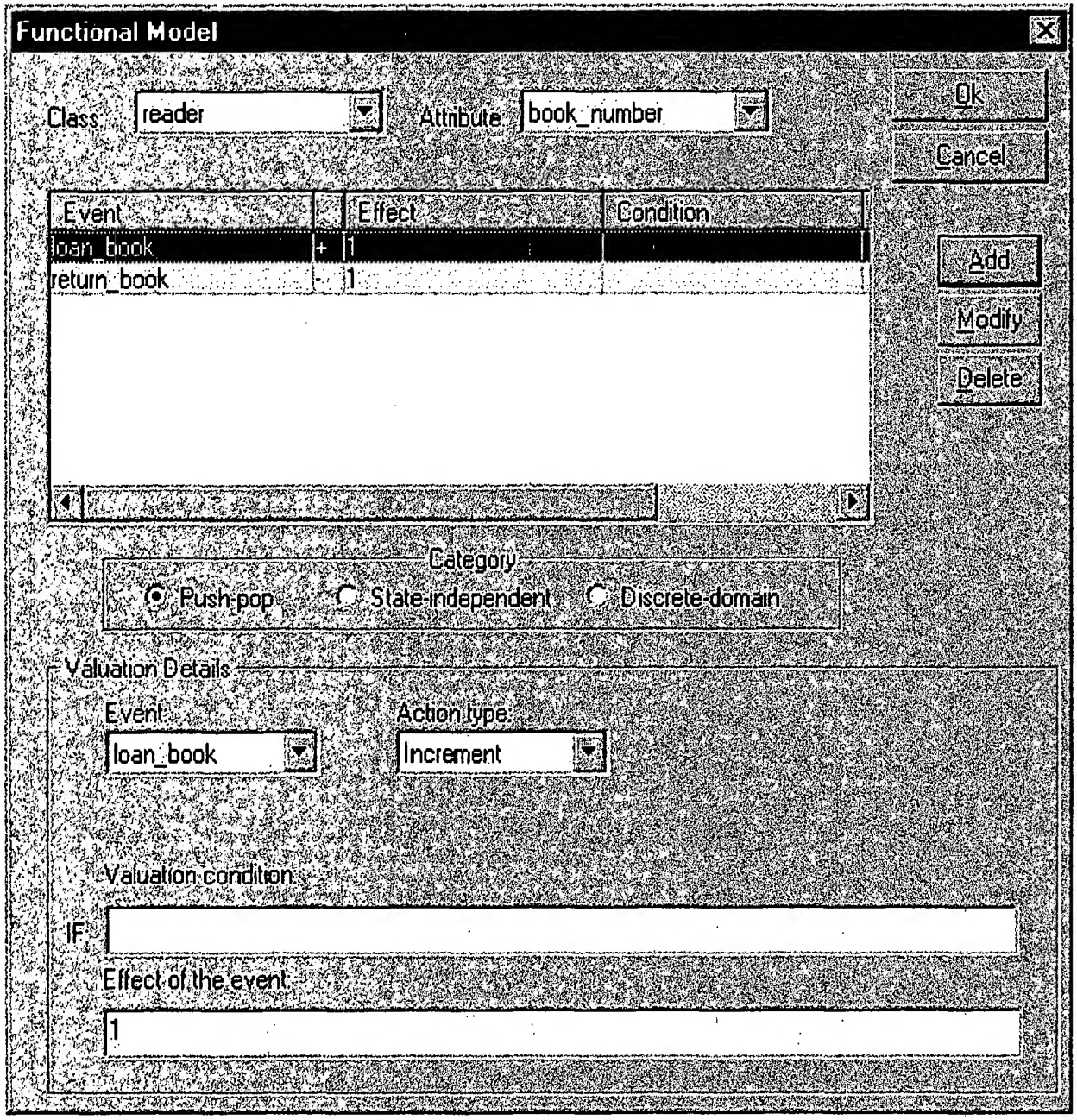


FIG. 5

FLOWCHART OF THE FUNCTIONS THAT ALL SPECIES OF SYSTEM LOGIC TRANSLATORS WILL PREFORM

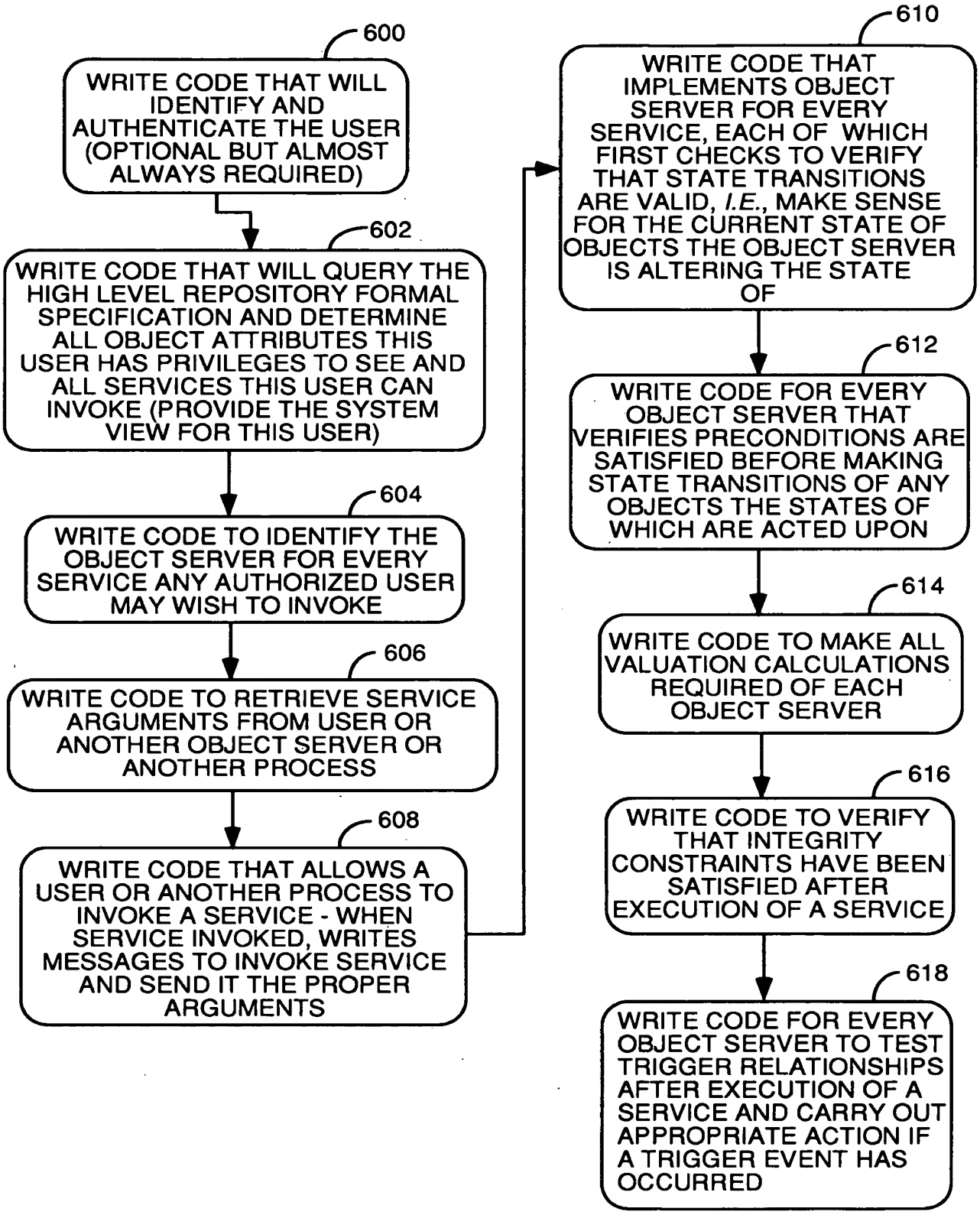


FIG. 6

FLOWCHART OF THE FUNCTIONS THAT ALL SPECIES IN THE USER INTERFACE TRANSLATOR SUBGENUS WILL PREFORM

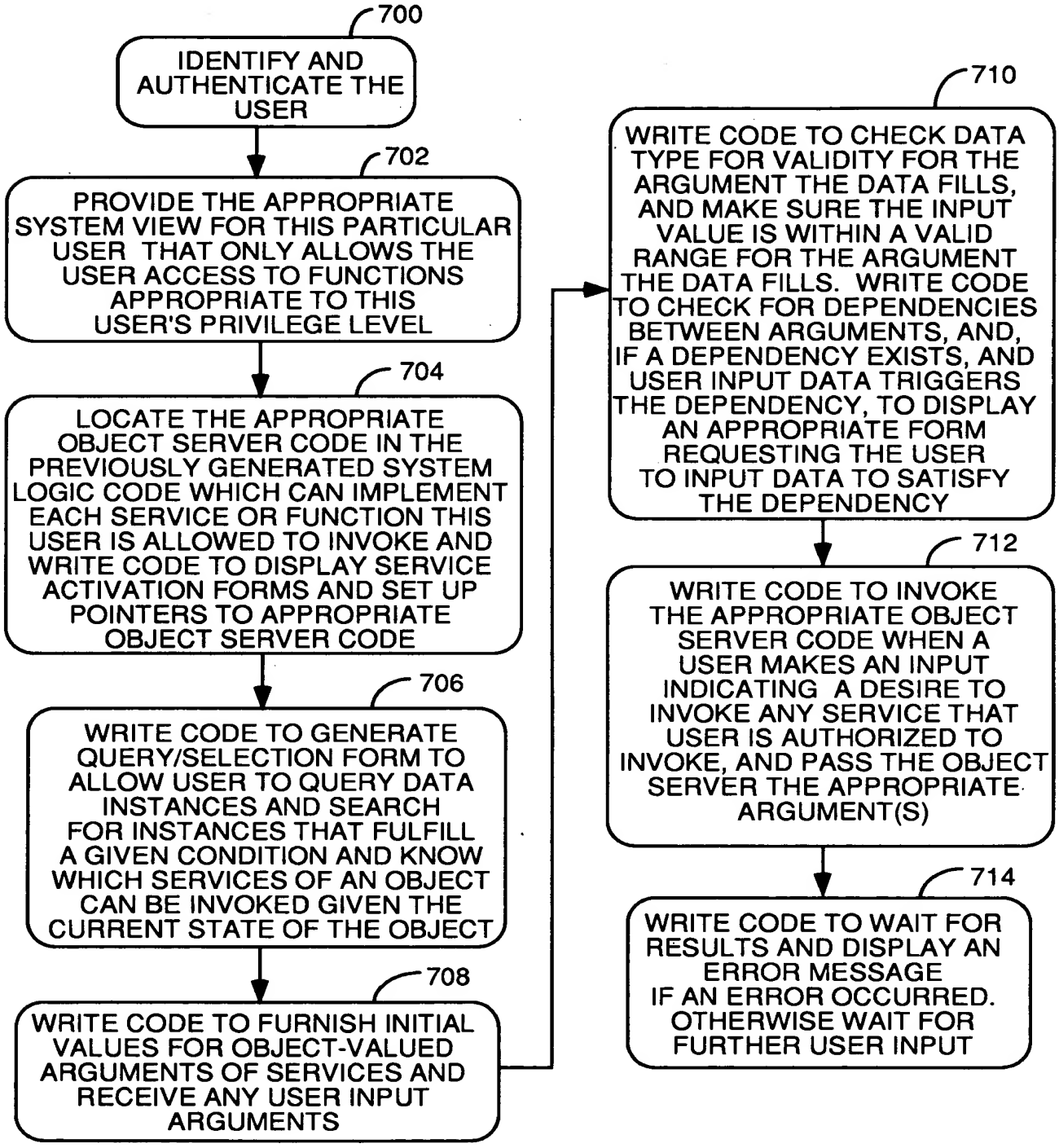


FIG. 7

FLOWCHART OF THE FUNCTIONS THAT ALL SPECIES IN THE DATABASE GENERATOR TRANSLATOR SUBGENUS WILL PERFORM

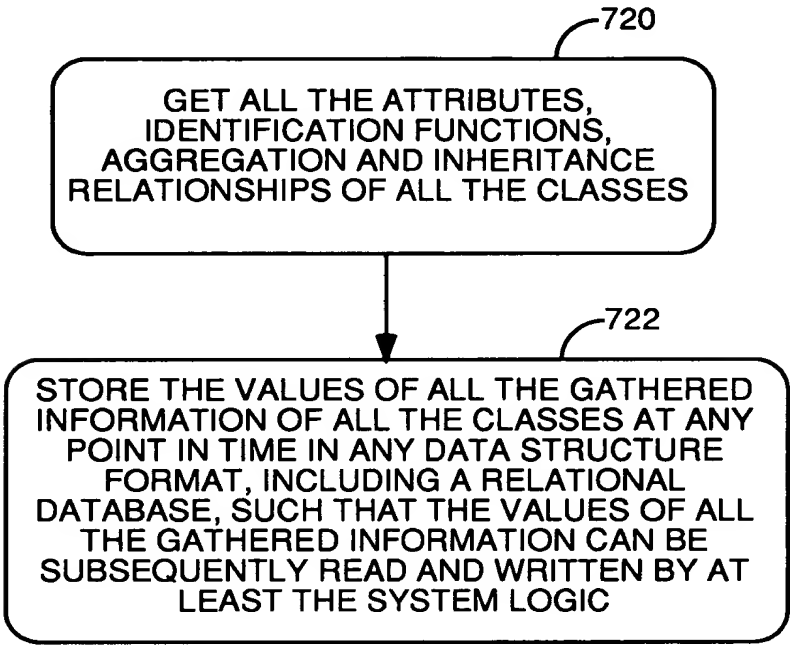
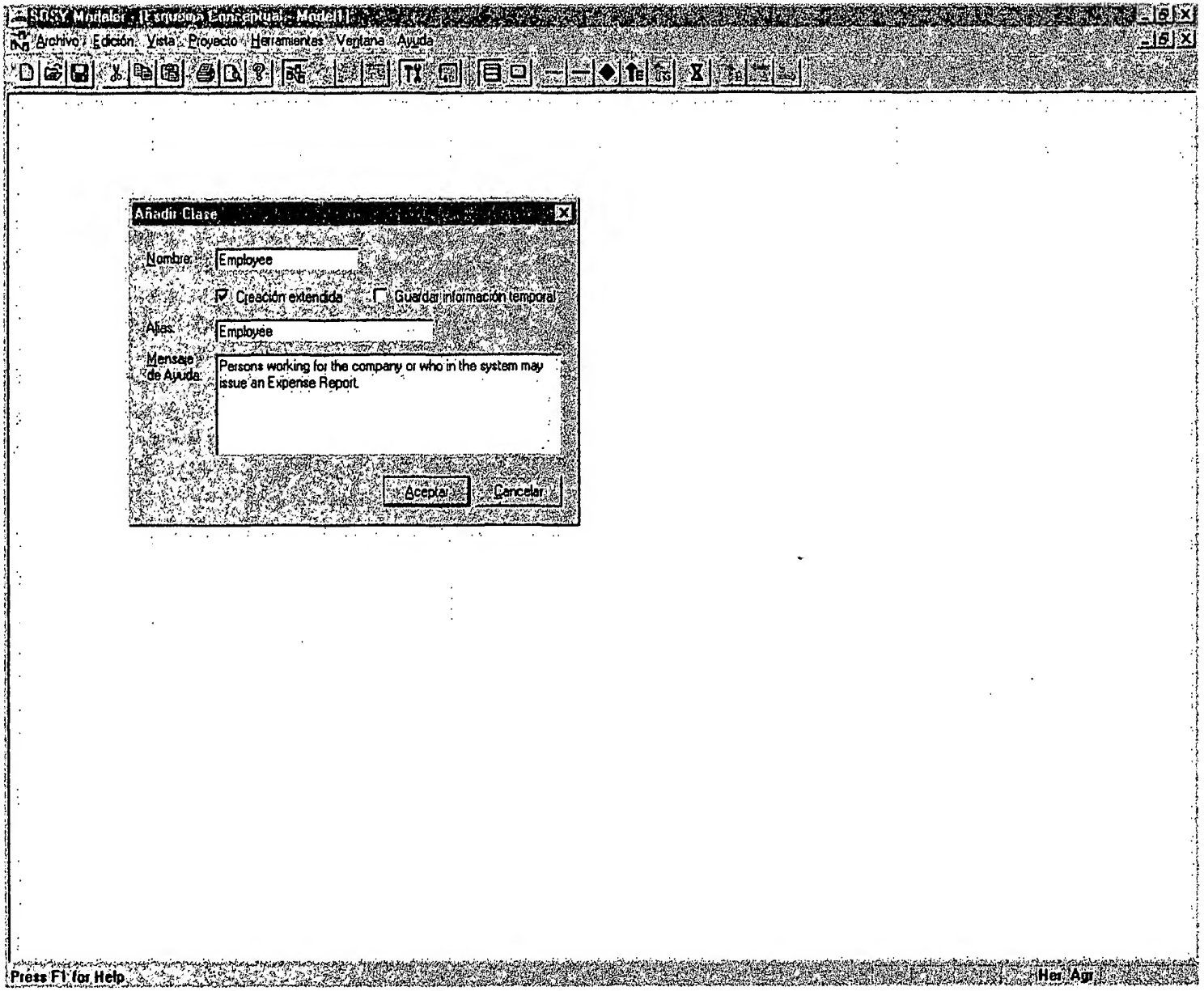


FIG. 8

Express Mail Label No. EL 929 260 760 US

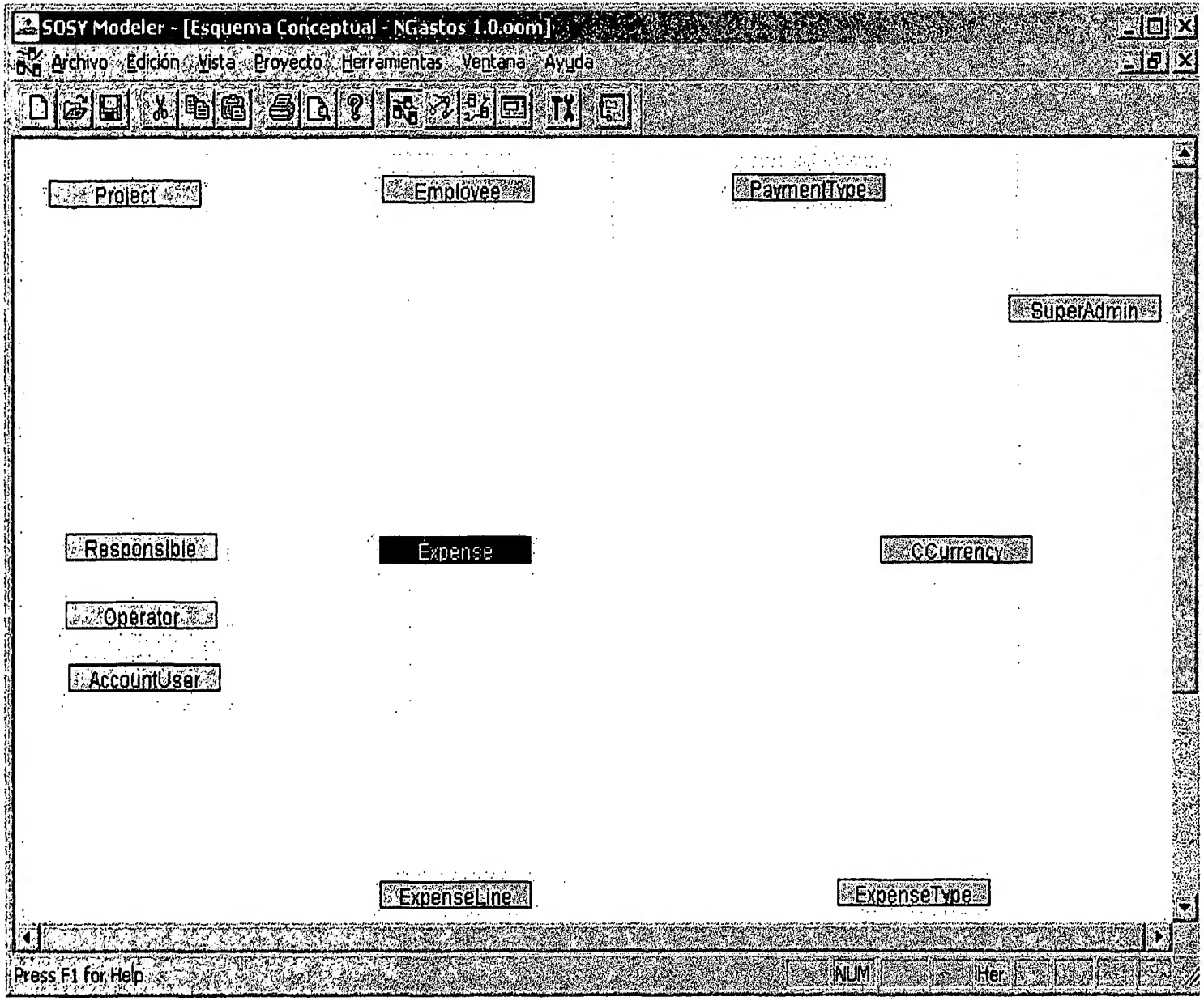
AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO. 09/872,413
FILING DATE: 06/01/01
DOCKET NO. CHG-001.1P



CLASS CREATION DIALOG

FIG. 9A

TOTOOT "2Th2Z860

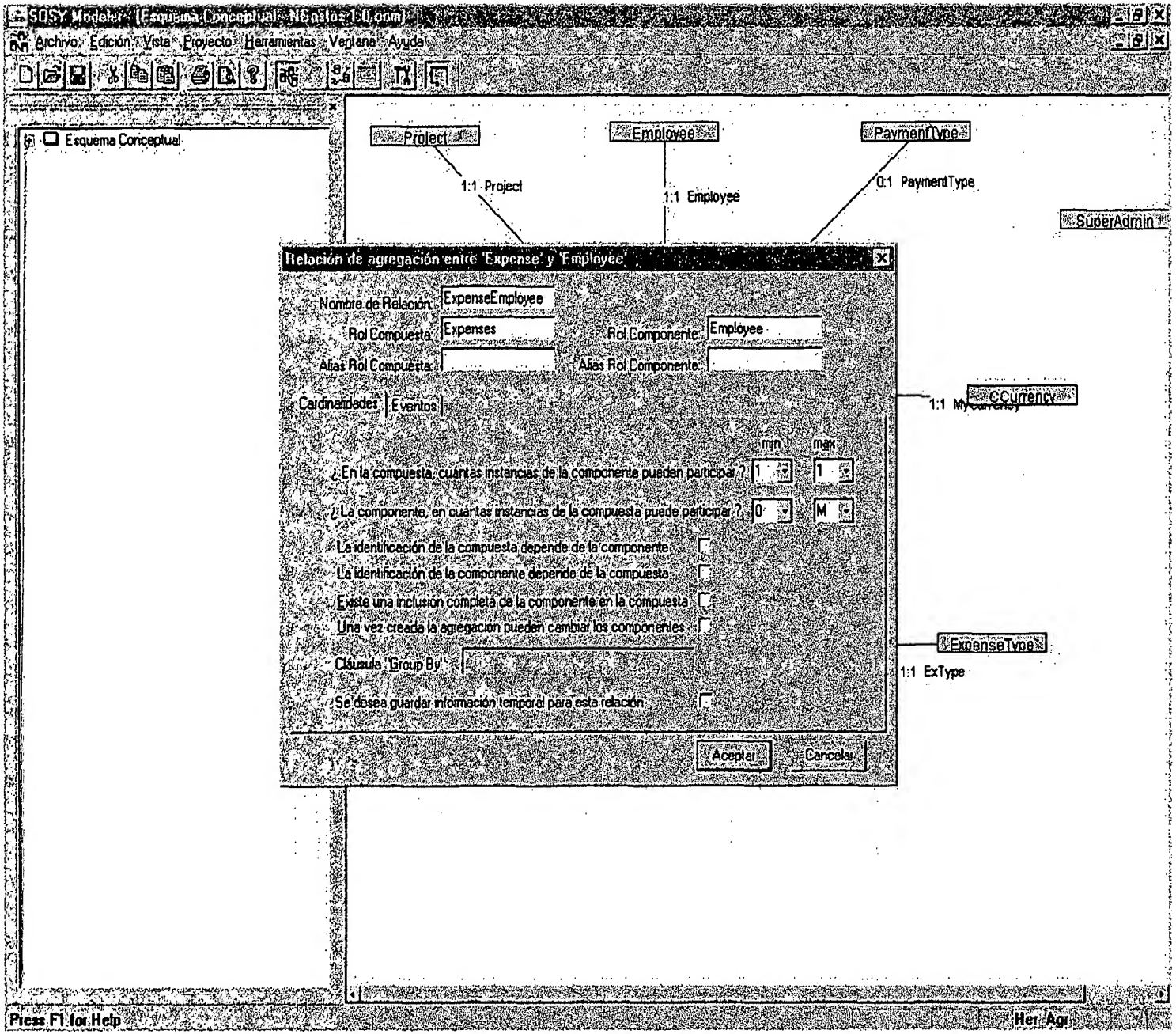


ALL CLASSES NEEDED AND CREATED IN EXPENSE MANAGEMENT SYSTEM

FIG. 9B

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO. 09/872,413
FILING DATE: 06/01/01
DOCKET NO. CHG-001.1P

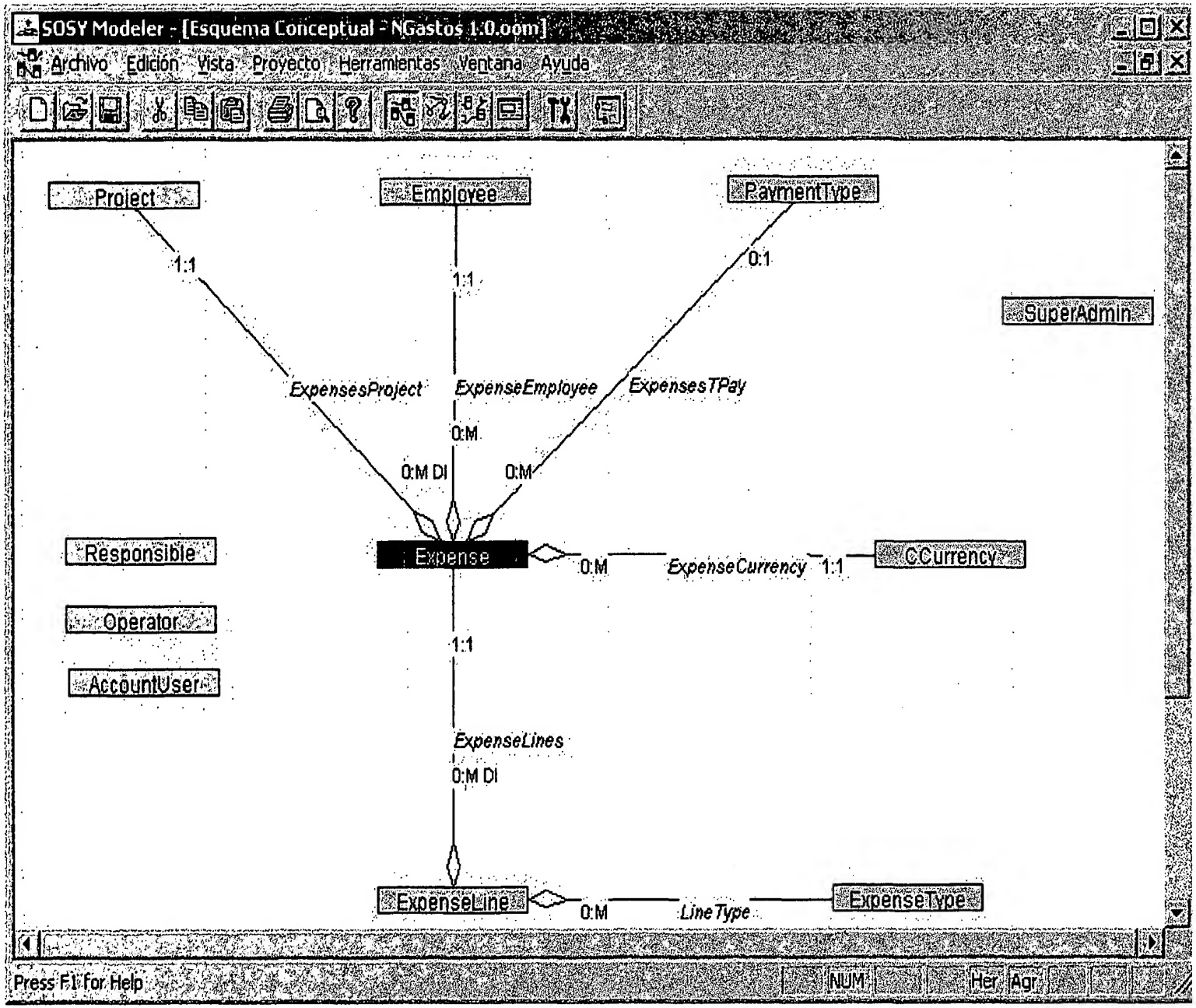
TOTOOT "ETH2860



DIALOG TO CREATE AND MODIFY RELATIONSHIPS BETWEEN CLASSES

FIG. 9C

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO. 09/872,413
FILING DATE: 06/01/01
DOCKET NO. CHG-001.1P



GRAPHIC DIALOG TO CREATE RELATIONSHIPS BETWEEN CLASSES AND GRAPHICALLY SHOW THE RELATIONSHIPS SO CREATED

FIG. 10

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO. 09/872,413
FILING DATE: 06/01/01
DOCKET NO. CHG-001.1P

TOTOOT"ETh2860

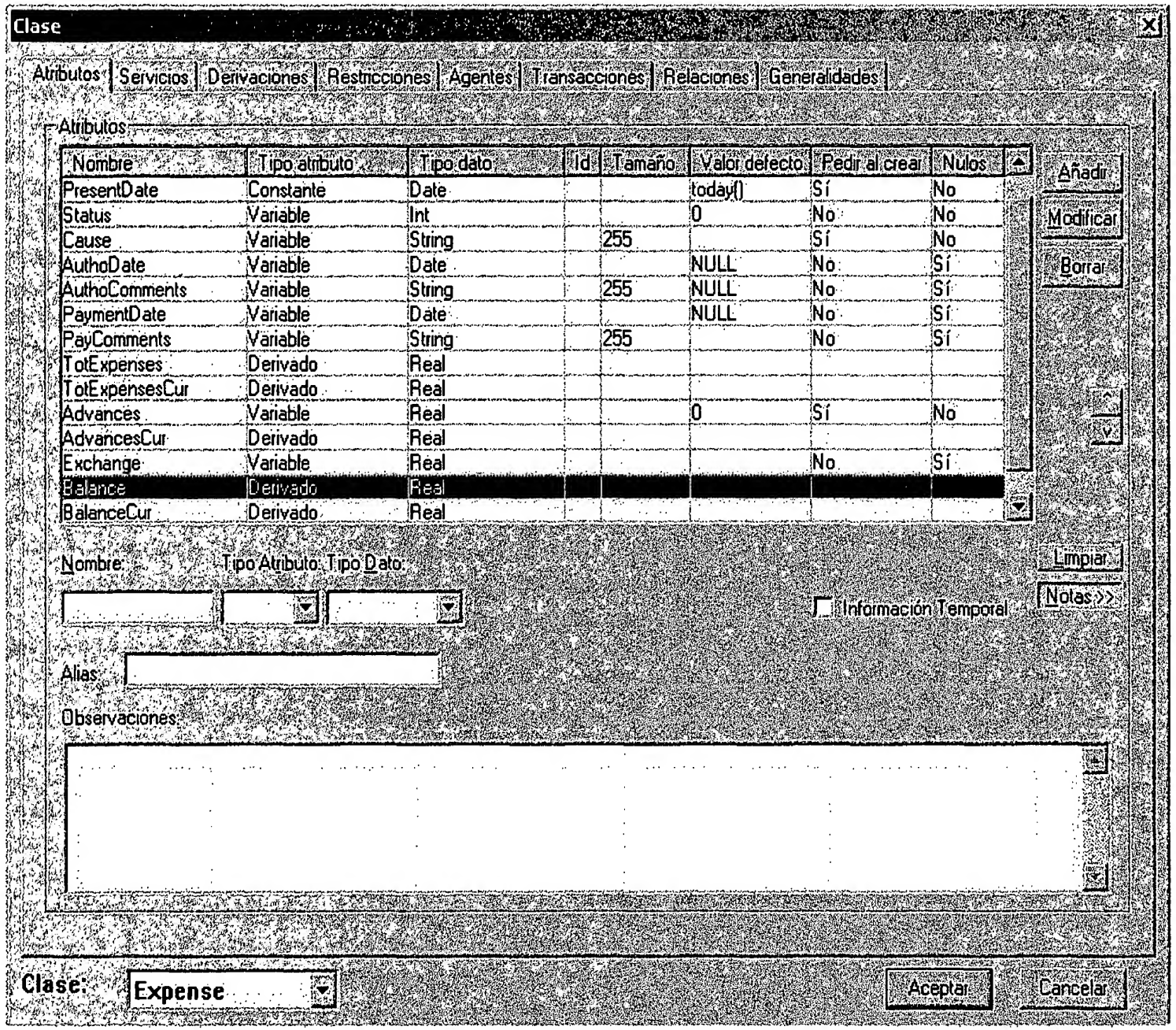


FIG. 11A

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO. 09/872,413
FILING DATE: 06/01/01
DOCKET NO. CHG-001.1P

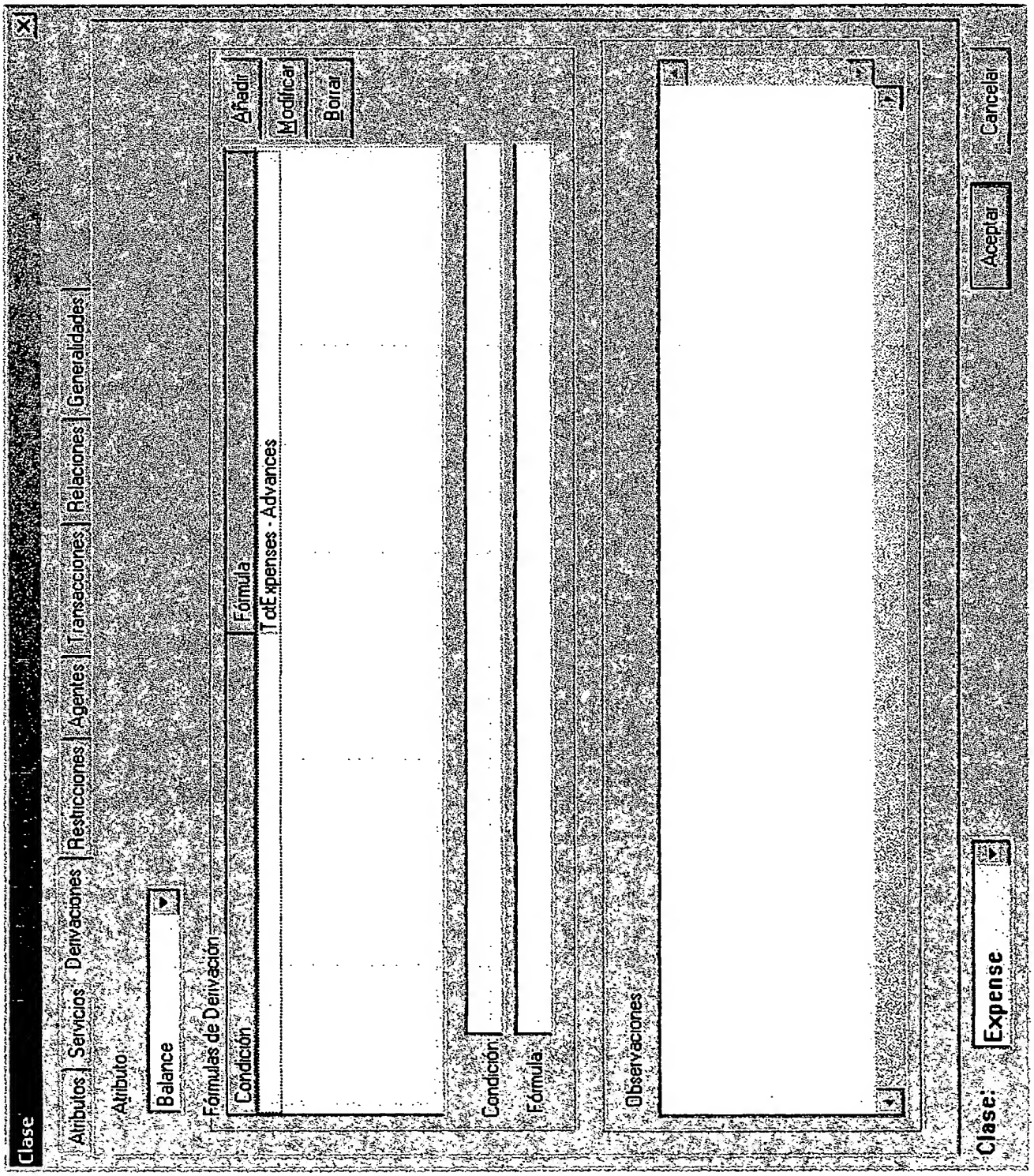
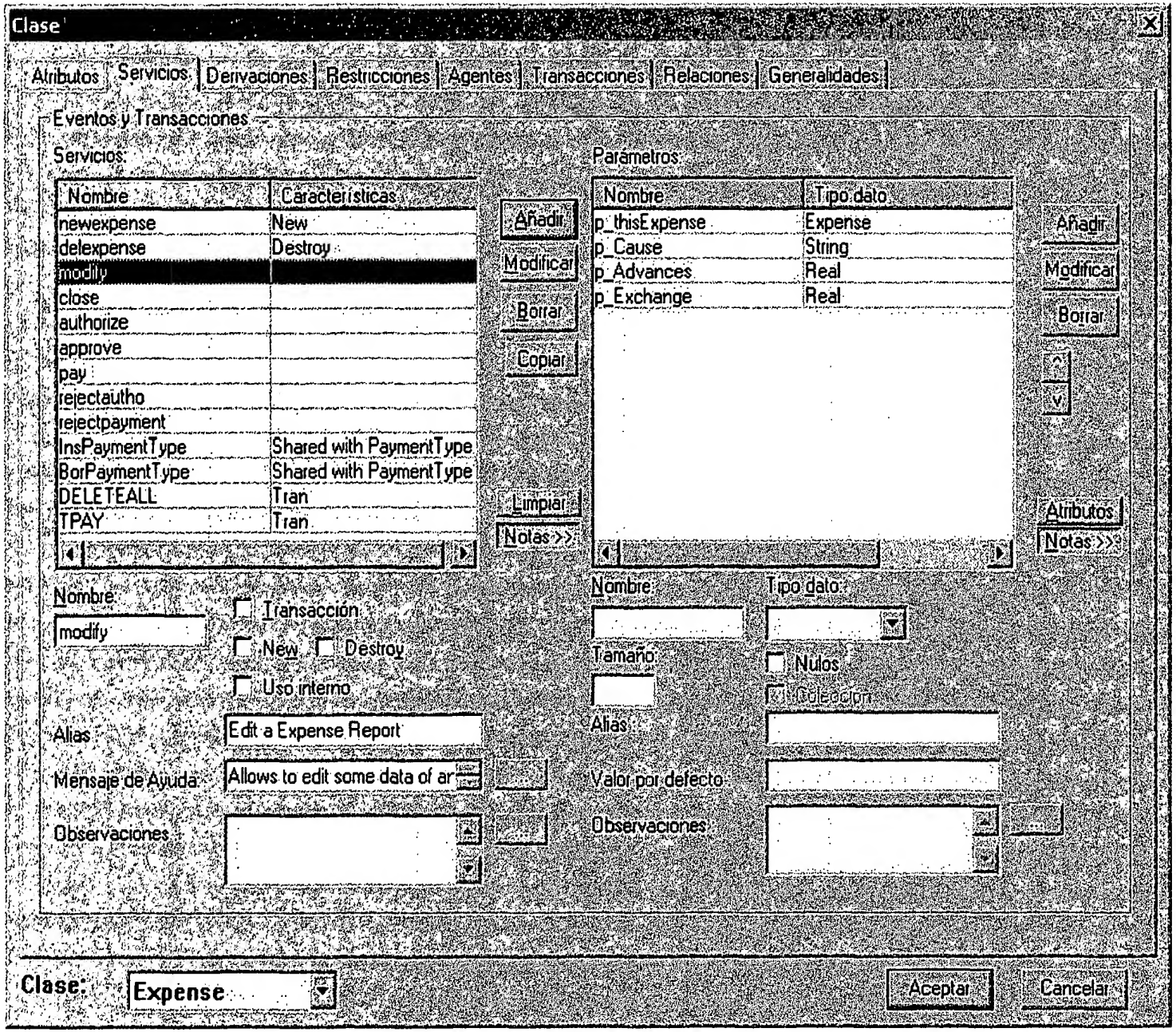

Clase
Atributos
Servicios
Derivaciones
Restricciones
Agentes
Transacciones
Relaciones
Generalidades
Atributo
Balance
Fórmulas de Derivación
Condición
Fórmula
TotExpenses - Advances
Añadir
Modificar
Borrar
Condición
Fórmula
Observaciones
Clase:
Expense
Aceptar
Cancelar

FIG. 11B

TOTOOT" ETH2860

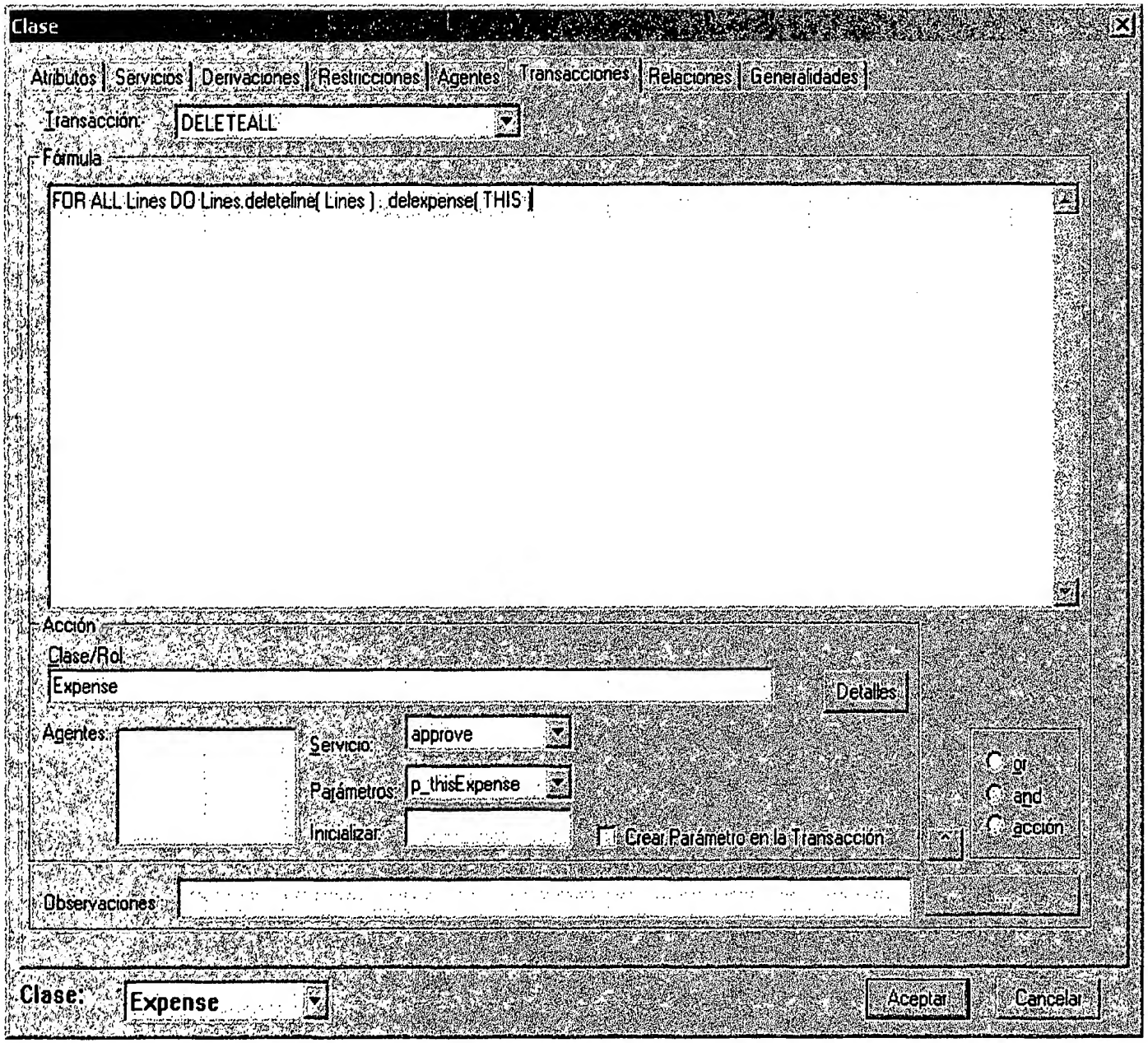


SERVICES OF CLASS "EXPENSE"

FIG. 12

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO. 09/872,413
FILING DATE: 06/01/01
DOCKET NO. CHG-001.1P

TOTOOT "2Th2C860

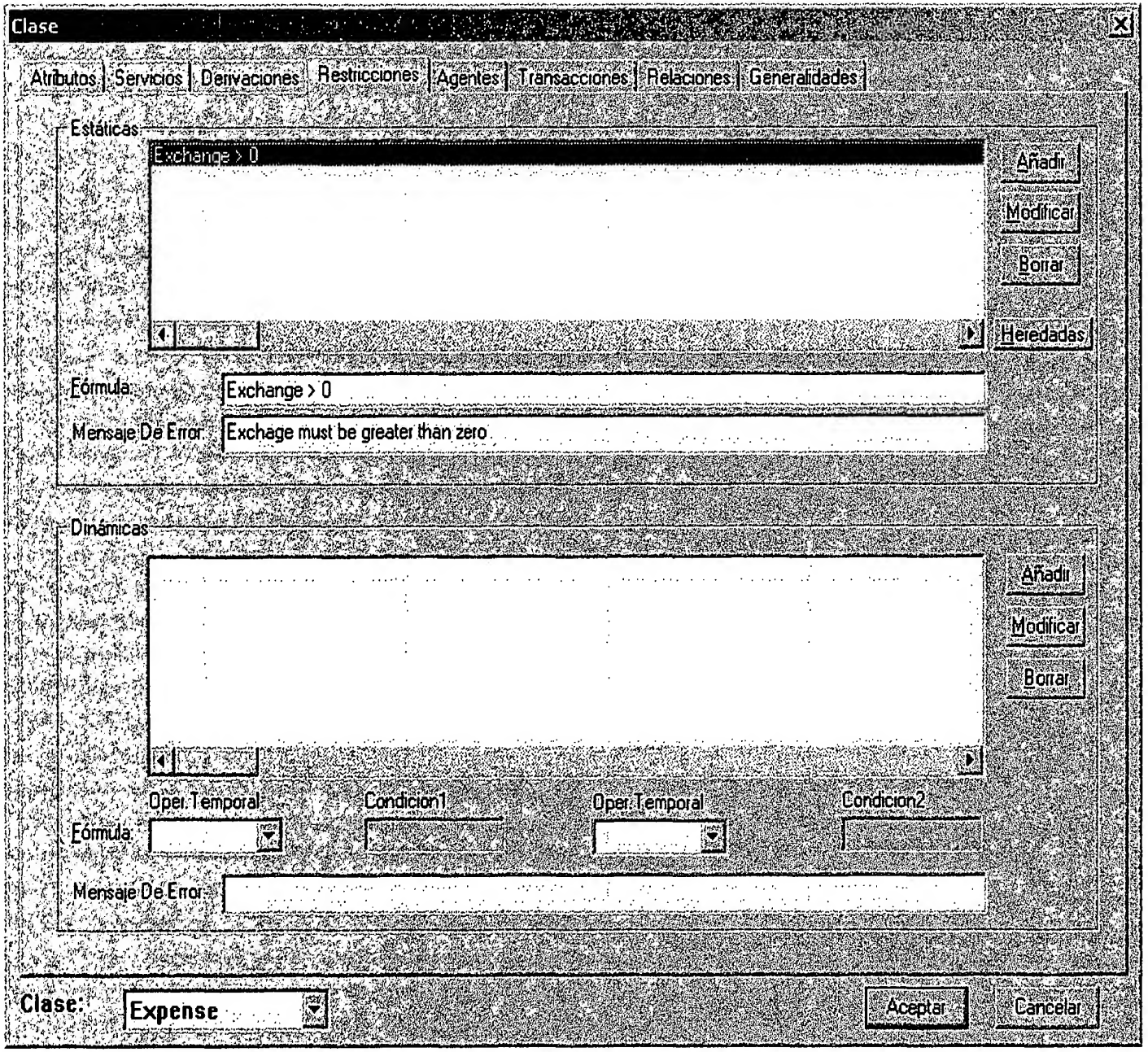


DIALOG TO DEFINE FORMULA FOR "DELETEALL" TRANSACTION

FIG. 13

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO. 09/872,413
FILING DATE: 06/01/01
DOCKET NO. CHG-001.1P

TOTOOT "ETh2860

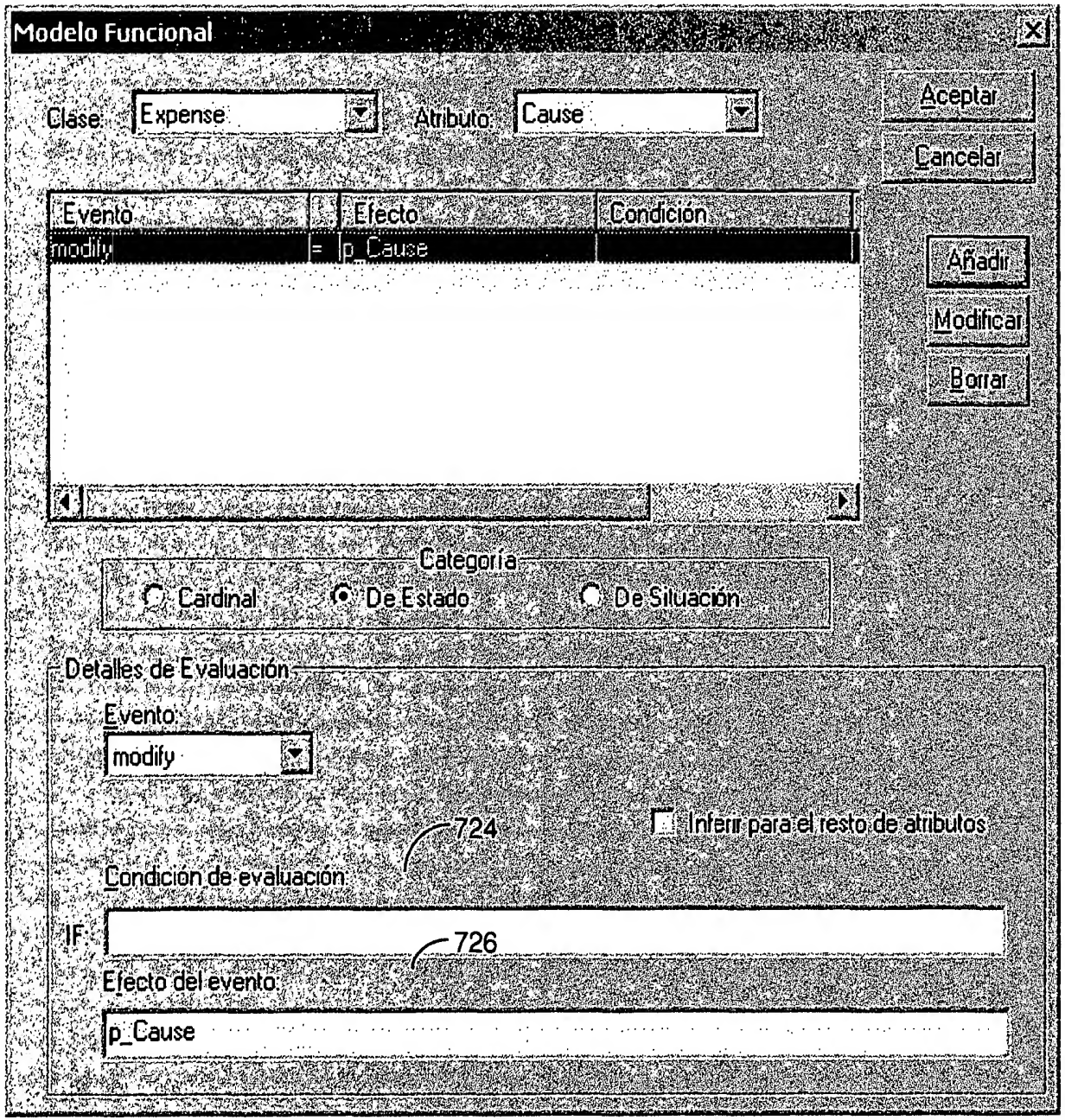


INTEGRITY CONSTRAINTS OF EXPENSE CLASS

FIG. 14

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO. 09/872,413
FILING DATE: 06/01/01
DOCKET NO. CHG-001.1P

TOTOOT "ETH2860

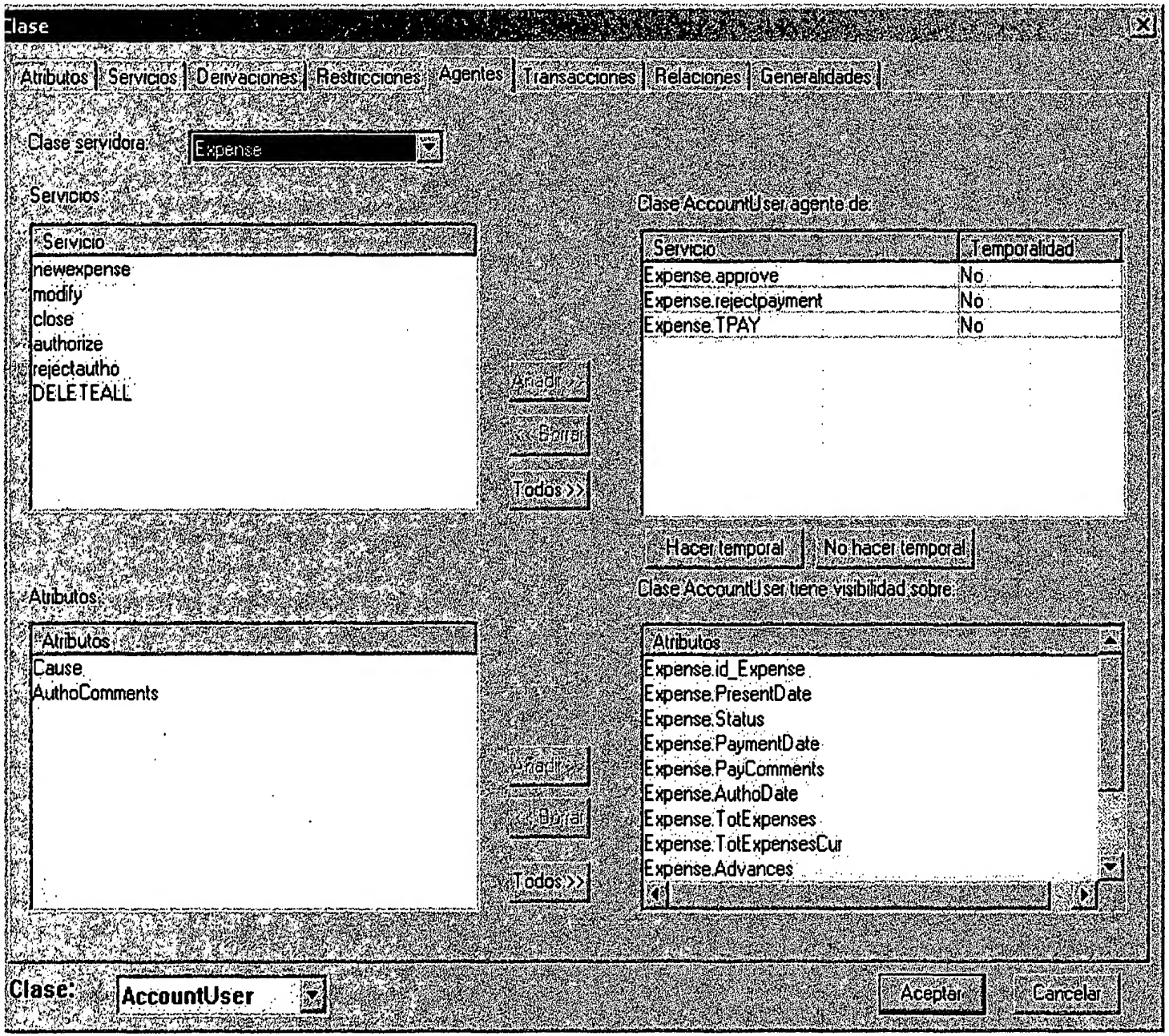


DIALOG BOX TO CREATE EVALUATION OF "CAUSE" ATTRIBUTE WITH THE "MODIFY" EVENT TO FORM PART OF FUNCTIONAL MODEL

FIG. 15

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO. 09/872,413
FILING DATE: 06/01/01
DOCKET NO. CHG-001.1P

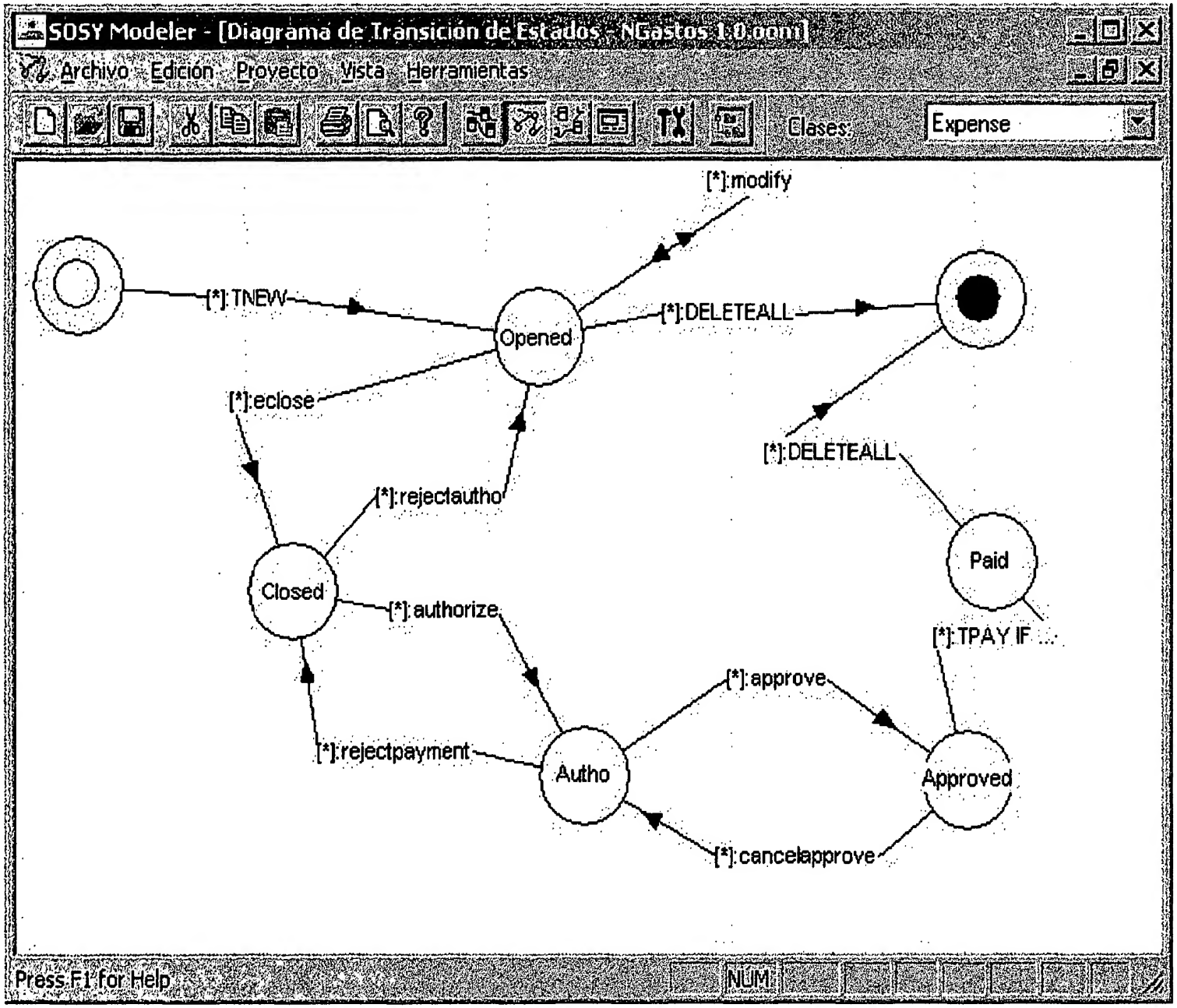
AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO. 09/872,413
FILING DATE: 06/01/01
DOCKET NO. CHG-001.1P



AGENT RELATIONSHIP DIALOG THAT CAN BE USED TO SET WHICH SERVICES "ACCOUNT USE" CAN ACCESS AND VISIBILITY OF CLASS ATTRIBUTES FOR THIS USER

FIG. 16

TOTOOT" 2Th2C860

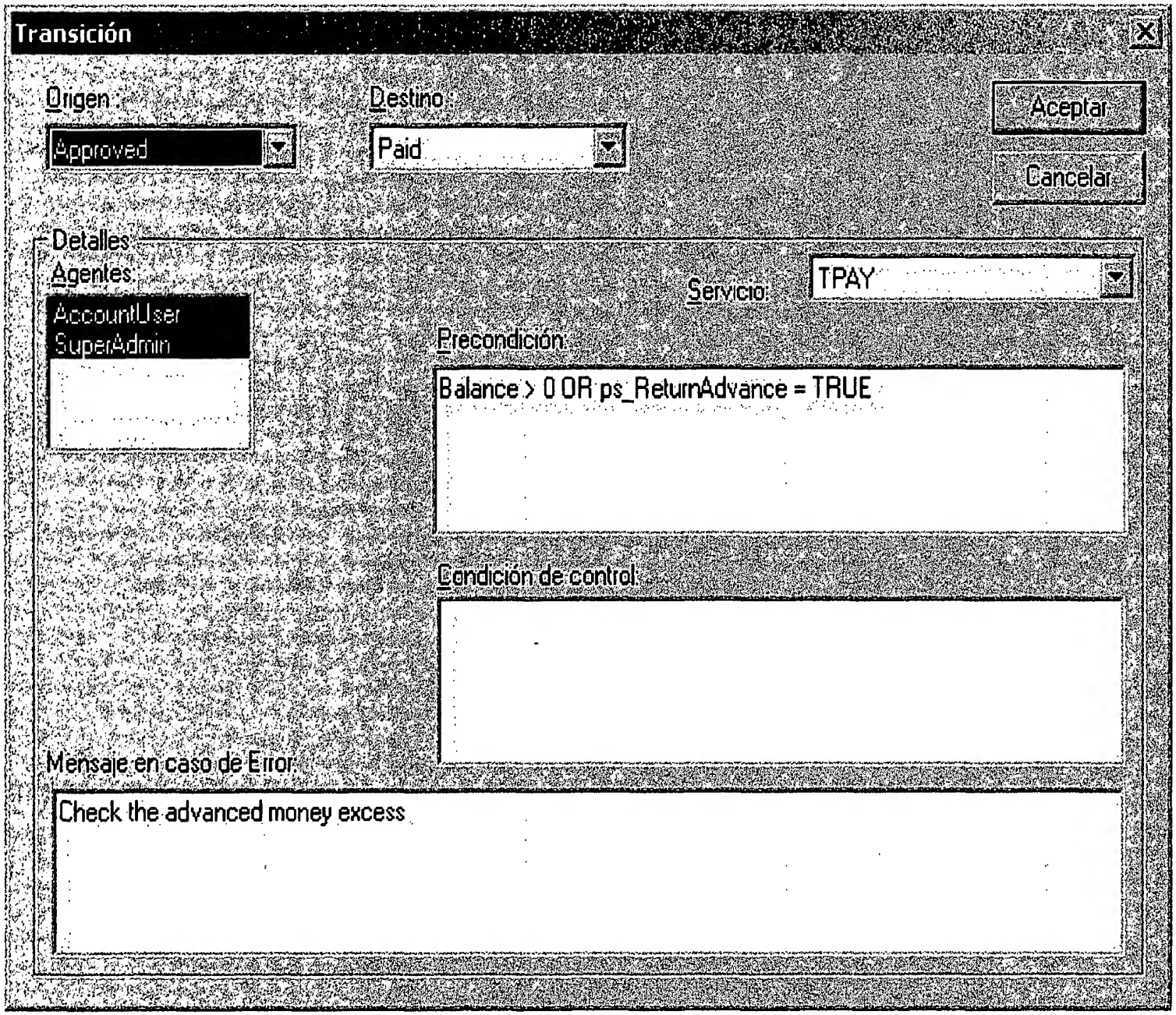


STATE TRANSITION DIAGRAM FOR CLASS "EXPENSE"

FIG. 17

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO. 09/872,413
FILING DATE: 06/01/01
DOCKET NO. CHG-001.1P

TOTOOT"ETh2A860

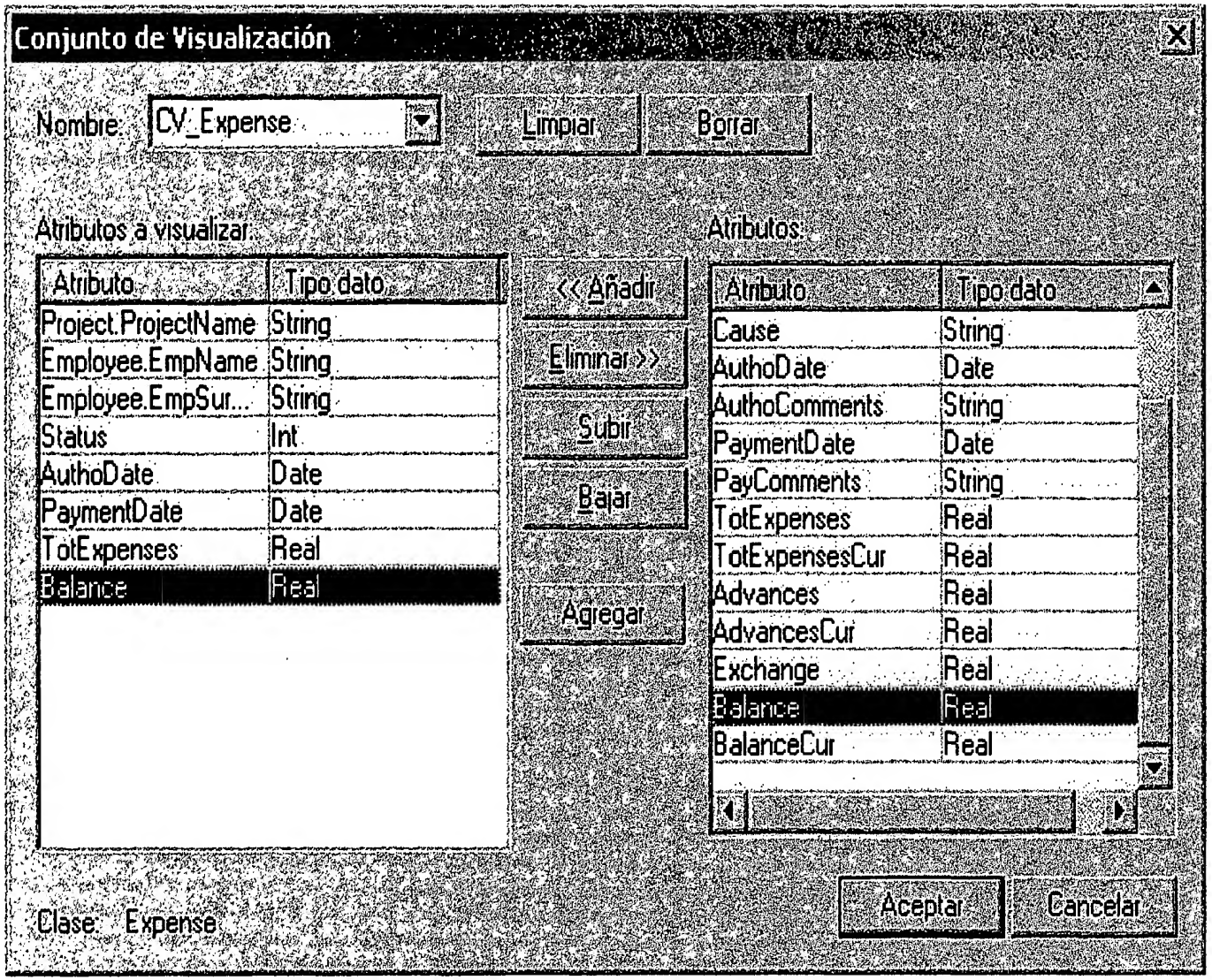


DIALOG BOX TO MODEL PRECONDITION

FIG. 18

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO. 09/872,413
FILING DATE: 06/01/01
DOCKET NO. CHG-001.1P

TOTOOT"ETh2Z860

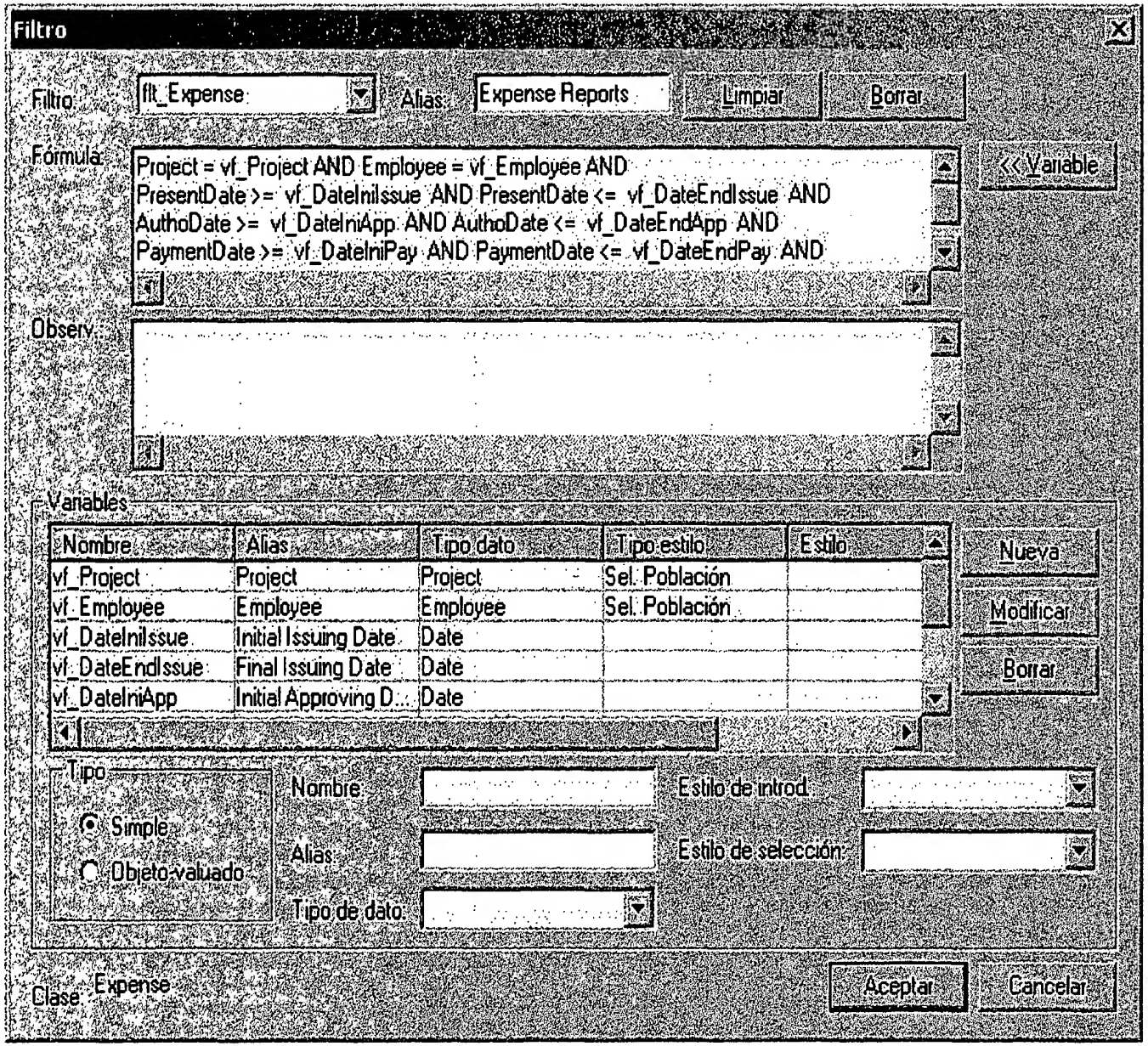


DIALOG BOX USED BY SOSY MODELER TO ESTABLISH A SET OF ATTRIBUTES TO BE DISPLAYED FOR THE "EXPENSE" CLASS

FIG. 19

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO. 09/872,413
FILING DATE: 06/01/01
DOCKET NO. CHG-001.1P

TOTOOT" ETh2Z860



DIALOG BOX USED BY SOSY MODELER TO ESTABLISH THE SEARCHING CRITERIA FOR THE EXPENSE CLASS AND TO ESTABLISH THE FILTER FORMULA TO USE AND THE VARIABLES TO REQUEST THE USER TO ENTER

FIG. 20

AUTOMATIC SOFTWARE PRODUCTION SYSTEM
INVENTOR: IBORRA AND PASTOR
SERIAL NO. 09/872,413
FILING DATE: 06/01/01
DOCKET NO. CHG-001.1P

FLOWCHART OF THE FUNCTIONS THAT ALL SPECIES IN THE DOCUMENTATION GENERATOR TRANSLATOR SUBGENUS WILL PERFORM

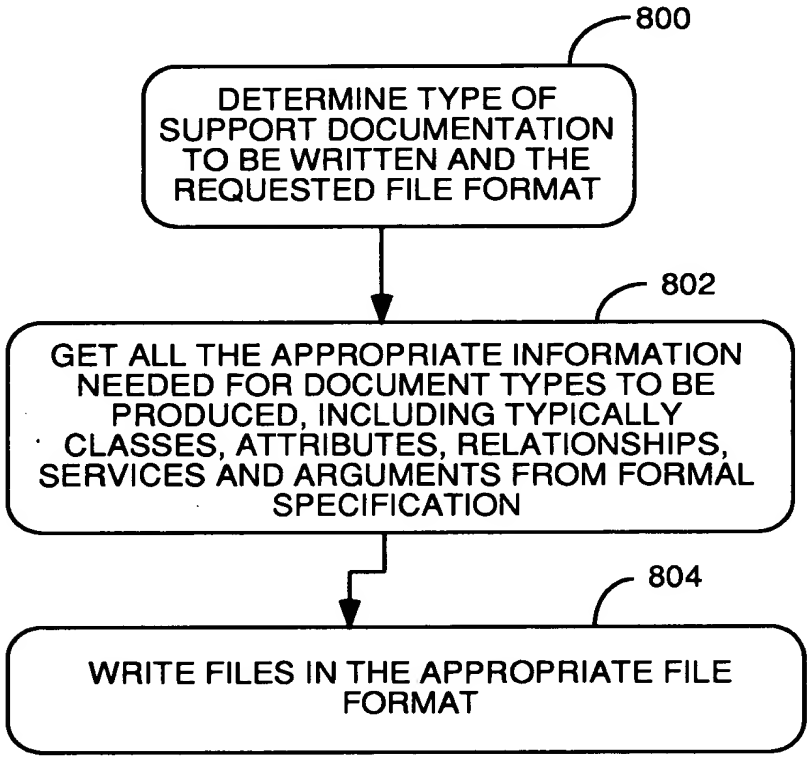


FIG. 21

Express Mail Label No. EL 844 776 260 US